

# REST API

## /applications (A list of all applications)

<http://10.76.6.118:8080/api/v1/applications/> (<http://10.76.6.118:8080/api/v1/applications/>)

```
[ {  
  "id" : "app-20150901035949-0004",  
  "name" : "PythonPi",  
  "attempts" : [ {  
    "startTime" : "2015-09-01T07:59:49.637GMT",  
    "endTime" : "2015-09-01T07:59:52.060GMT",  
    "sparkUser" : "zhang",  
    "completed" : true  
  } ]  
},  
... ]
```

## /applications/[app-id]/jobs (A list of all jobs for a given application)

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/jobs>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/jobs>)

```
[ {  
  "jobId" : 0,  
  "name" : "reduce at /home/zhang/sparkworkflow/src/pi.py:39",  
  "submissionTime" : "2015-09-01T07:59:50.638GMT",  
  "completionTime" : "2015-09-01T07:59:51.837GMT",  
  "stageIds" : [ 0 ],  
  "status" : "SUCCEEDED",  
  "numTasks" : 2,  
  "numActiveTasks" : 0,  
  "numCompletedTasks" : 2,
```

```
“numSkippedTasks” : 2,  
“numFailedTasks” : 0,  
“numActiveStages” : 0,  
“numCompletedStages” : 1,  
“numSkippedStages” : 0,  
“numFailedStages” : 0  
}]
```

## **/applications/[app-id]/jobs/[job-id] (Details for the given job)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/jobs/0>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/jobs/0>)

取上面的一个 job

## **/applications/[app-id]/stages (A list of all stages for a given application)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages>)

```
[ {  
“status” : “COMPLETE”,  
“stageId” : 0,  
“attemptId” : 0,  
“numActiveTasks” : 0,  
“numCompleteTasks” : 2,  
“numFailedTasks” : 0,  
“executorRunTime” : 678,  
“inputBytes” : 0,  
“inputRecords” : 0,  
“outputBytes” : 0,  
“outputRecords” : 0,  
“shuffleReadBytes” : 0,  
“shuffleReadRecords” : 0,  
“shuffleWriteBytes” : 0,
```

```
"shuffleWriteRecords" : 0,  
"memoryBytesSpilled" : 0,  
"diskBytesSpilled" : 0,  
"name" : "reduce at /home/zhang/sparkworkflow/src/pi.py:39",  
"details" : "",  
"schedulingPool" : "default",  
"accumulatorUpdates" : [ ]  
}]
```

## **/applications/[app-id]/stages/[stage-id] (A list of all attempts for the given stage)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0>)

```
[ {  
  "status" : "COMPLETE",  
  "stageId" : 0,  
  "attemptId" : 0,  
  "numActiveTasks" : 0,  
  "numCompleteTasks" : 2,  
  "numFailedTasks" : 0,  
  "executorRunTime" : 678,  
  "inputBytes" : 0,  
  "inputRecords" : 0,  
  "outputBytes" : 0,  
  "outputRecords" : 0,  
  "shuffleReadBytes" : 0,  
  "shuffleReadRecords" : 0,  
  "shuffleWriteBytes" : 0,  
  "shuffleWriteRecords" : 0,  
  "memoryBytesSpilled" : 0,  
  "diskBytesSpilled" : 0,  
  "name" : "reduce at /home/zhang/sparkworkflow/src/pi.py:39",  
  "details" : "",  
  "schedulingPool" : "default",  
  "accumulatorUpdates" : [ ],
```

```
“tasks” : {  
  “1” : {  
    “taskId” : 1,  
    “index” : 1,  
    “attempt” : 0,  
    “launchTime” : “2015-09-01T07:59:51.033GMT”,  
    “executorId” : “2”,  
    “host” : “192.168.1.112”,  
    “taskLocality” : “PROCESS_LOCAL”,  
    “speculative” : false,  
    “accumulatorUpdates” : [ ],  
    “taskMetrics” : {  
      “executorDeserializeTime” : 348,  
      “executorRunTime” : 341,  
      “resultSize” : 705,  
      “jvmGcTime” : 0,  
      “resultSerializationTime” : 0,  
      “memoryBytesSpilled” : 0,  
      “diskBytesSpilled” : 0  
    }  
  },  
  “0” : {  
    “taskId” : 0,  
    “index” : 0,  
    “attempt” : 0,  
    “launchTime” : “2015-09-01T07:59:51.013GMT”,  
    “executorId” : “2”,  
    “host” : “192.168.1.112”,  
    “taskLocality” : “PROCESS_LOCAL”,  
    “speculative” : false,  
    “accumulatorUpdates” : [ ],  
    “taskMetrics” : {  
      “executorDeserializeTime” : 350,  
      “executorRunTime” : 337,  
      “resultSize” : 705,  
      “jvmGcTime” : 0,  
      “resultSerializationTime” : 0,  
      “memoryBytesSpilled” : 0,  

```

```
"diskBytesSpilled" : 0
}
},
"executorSummary" : {
  "2" : {
    "taskTime" : 1597,
    "failedTasks" : 0,
    "succeededTasks" : 2,
    "inputBytes" : 0,
    "outputBytes" : 0,
    "shuffleRead" : 0,
    "shuffleWrite" : 0,
    "memoryBytesSpilled" : 0,
    "diskBytesSpilled" : 0
  }
}
```

## **/applications/[app-id]/stages/[stage-id]/[stage-attempt-id] (Details for the given stage attempt)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0>)

和上面一样

## **/applications/[app-id]/stages/[stage-id]/[stage-attempt-id]/taskSummary (Summary metrics of all tasks in the given stage attempt)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0/taskSummary> (<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0/taskSummary>)

```
{
  "quantiles" : [ 0.05, 0.25, 0.5, 0.75, 0.95 ],
  "executorDeserializeTime" : [ 348.0, 348.0, 350.0, 350.0, 350.0 ], // = taskStart - startTime
  "executorRunTime" : [ 337.0, 337.0, 341.0, 341.0, 341.0 ], // = taskFinish - taskStart
  "resultSize" : [ 705.0, 705.0, 705.0, 705.0, 705.0 ],
  "jvmGcTime" : [ 0.0, 0.0, 0.0, 0.0, 0.0 ],
  "resultSerializationTime" : [ 0.0, 0.0, 0.0, 0.0, 0.0 ],
  "memoryBytesSpilled" : [ 0.0, 0.0, 0.0, 0.0, 0.0 ],
  "diskBytesSpilled" : [ 0.0, 0.0, 0.0, 0.0, 0.0 ]
}
```

## **/applications/[app-id]/stages/[stage-id]/[stage-attempt-id]/taskList (A list of all tasks for the given stage attempt)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0/taskList>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/stages/0/0/taskList>)

```
[ {
  "taskId" : 0,
  "index" : 0,
  "attempt" : 0,
  "launchTime" : "2015-09-01T07:59:51.013GMT",
  "executorId" : "2",
  "host" : "192.168.1.112",
  "taskLocality" : "PROCESS_LOCAL",
  "speculative" : false,
  "accumulatorUpdates" : [ ],
  "taskMetrics" : {
    "executorDeserializeTime" : 350,
    "executorRunTime" : 337,
    "resultSize" : 705,
    "jvmGcTime" : 0,
    "resultSerializationTime" : 0,
    "memoryBytesSpilled" : 0,
    "diskBytesSpilled" : 0
  }
}
```

```
}, {  
  "taskId" : 1,  
  "index" : 1,  
  "attempt" : 0,  
  "launchTime" : "2015-09-01T07:59:51.033GMT",  
  "executorId" : "2",  
  "host" : "192.168.1.112",  
  "taskLocality" : "PROCESS_LOCAL",  
  "speculative" : false,  
  "accumulatorUpdates" : [ ],  
  "taskMetrics" : {  
    "executorDeserializeTime" : 348,  
    "executorRunTime" : 341,  
    "resultSize" : 705,  
    "jvmGcTime" : 0,  
    "resultSerializationTime" : 0,  
    "memoryBytesSpilled" : 0,  
    "diskBytesSpilled" : 0  
  }  
}]
```

## **/applications/[app-id]/executors (A list of all executors for the given application)**

---

<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/executors>  
(<http://10.76.6.118:8080/api/v1/applications/app-20150901035949-0004/executors>)

```
[ {  
  "id" : "2",  
  "hostPort" : "192.168.1.112:39988",  
  "rddBlocks" : 0,  
  "memoryUsed" : 0,  
  "diskUsed" : 0,  
  "activeTasks" : 0,  
  "failedTasks" : 0,  
  "completedTasks" : 2,  
  "totalTasks" : 2,
```

```
“totalDuration” : 1597,
“totalInputBytes” : 0,
“totalShuffleRead” : 0,
“totalShuffleWrite” : 0,
“maxMemory” : 7779731374,
“executorLogs” : {
“stdout” : “http://192.168.1.112:8081/logPage/?appld=app-20150901035949-0004&executorId=2&logType=stdout (http://192.168.1.112:8081/logPage/?appld=app-20150901035949-0004&executorId=2&logType=stdout)”,
“stderr” : “http://192.168.1.112:8081/logPage/?appld=app-20150901035949-0004&executorId=2&logType=stderr (http://192.168.1.112:8081/logPage/?appld=app-20150901035949-0004&executorId=2&logType=stderr)“
}
}, {
“id” : “driver”,
“hostPort” : “10.76.6.118:54710”,
“rddBlocks” : 0,
“memoryUsed” : 0,
“diskUsed” : 0,
“activeTasks” : 0,
“failedTasks” : 0,
“completedTasks” : 0,
“totalTasks” : 0,
“totalDuration” : 0,
“totalInputBytes” : 0,
“totalShuffleRead” : 0,
“totalShuffleWrite” : 0,
“maxMemory” : 2223023063,
“executorLogs” : { }
}, {
“id” : “1”,
“hostPort” : “192.168.1.110:46924”,
“rddBlocks” : 0,
“memoryUsed” : 0,
“diskUsed” : 0,
“activeTasks” : 0,
“failedTasks” : 0,
“completedTasks” : 0,
```



```
“totalTasks” : 0,
“totalDuration” : 0,
“totalInputBytes” : 0,
“totalShuffleRead” : 0,
“totalShuffleWrite” : 0,
“maxMemory” : 7779731374,
“executorLogs” : {
  “stdout” : “http://192.168.1.110:8081/logPage/?appld=app-20150901035949-0004&executorId=1&logType=stdout (http://192.168.1.110:8081/logPage/?appld=app-20150901035949-0004&executorId=1&logType=stdout)”,
  “stderr” : “http://192.168.1.110:8081/logPage/?appld=app-20150901035949-0004&executorId=1&logType=stderr (http://192.168.1.110:8081/logPage/?appld=app-20150901035949-0004&executorId=1&logType=stderr)“
}, {
  “id” : “0”,
  “hostPort” : “192.168.1.109:54902”,
  “rddBlocks” : 0,
  “memoryUsed” : 0,
  “diskUsed” : 0,
  “activeTasks” : 0,
  “failedTasks” : 0,
  “completedTasks” : 0,
  “totalTasks” : 0,
  “totalDuration” : 0,
  “totalInputBytes” : 0,
  “totalShuffleRead” : 0,
  “totalShuffleWrite” : 0,
  “maxMemory” : 7779731374,
  “executorLogs” : {
    “stdout” : “http://192.168.1.109:8081/logPage/?appld=app-20150901035949-0004&executorId=0&logType=stdout (http://192.168.1.109:8081/logPage/?appld=app-20150901035949-0004&executorId=0&logType=stdout)”,
    “stderr” : “http://192.168.1.109:8081/logPage/?appld=app-20150901035949-0004&executorId=0&logType=stderr (http://192.168.1.109:8081/logPage/?appld=app-20150901035949-0004&executorId=0&logType=stderr)“
  }
}, {
```

```
“id” : “3”,
“hostPort” : “192.168.1.111:32811”,
“rddBlocks” : 0,
“memoryUsed” : 0,
“diskUsed” : 0,
“activeTasks” : 0,
“failedTasks” : 0,
“completedTasks” : 0,
“totalTasks” : 0,
“totalDuration” : 0,
“totalInputBytes” : 0,
“totalShuffleRead” : 0,
“totalShuffleWrite” : 0,
“maxMemory” : 7779731374,
“executorLogs” : {
“stdout” : “http://192.168.1.111:8081/logPage/?appld=app-20150901035949-0004&executorId=3&logType=stdout (http://192.168.1.111:8081/logPage/?appld=app-20150901035949-0004&executorId=3&logType=stdout)”,
“stderr” : “http://192.168.1.111:8081/logPage/?appld=app-20150901035949-0004&executorId=3&logType=stderr”
}
}]
```

## **/applications/[app-id]/storage/rdd (A list of stored RDDs for the given application)**

---

空的 集群上的几个任务都没有  
应该是只能看到保存到磁盘的 RDD

## **/applications/[app-id]/storage/rdd/[rdd-id] (Details for the storage status of a given RDD)**

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